PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

| Applicant's or agent's file reference | FOR FURTHER ACTION | see Form PCT/ISA/220 s well as, where applicable, item 5 below. |
|---|--|--|
| TY04014PCT | International filing date (day/month/yea | (Earliest) Priority Date (day/month/year) |
| International application No. | international limits date (day/mornibyet | |
| PCT/JP2004/018328 | 02/12/2004 | 02/12/2003 |
| Applicant | | |
| TOYOTA JIDOSHA KABUSHIKI | KAISHA | |
| This International Search Report has be according to Article 18. A copy is being to | en prepared by this International Searchir transmitted to the International Bureau. | g Authority and is transmitted to the applicant |
| This International Search Report consist | s of a total of <u>4</u> sheets | |
| | y a copy of each prior art document cited | |
| | | |
| Basis of the report a. With regard to the language, the language in which it was filed, u | e international search was carried out on numbers otherwise indicated under this item. | he basis of the international application in the |
| The international this Authority (R | | translation of the international application furnished to |
| b. With regard to any nucl | eotide and/or amino acid sequence dis | closed in the international application, see Box No. I. |
| 2. Certain claims were fo | ound unsearchable (See Box II). | |
| 3. Unity of invention is la | icking (see Box III). | |
| 4. With regard to the title, | | |
| X the text is approved as | submitted by the applicant. | |
| · = | lished by this Authority to read as follows: | |
| | | |
| | | |
| | | |
| | | |
| | ·- | |
| | | • |
| | | |
| | | |
| 5. With regard to the abstract, | | |
| X the text is approved as | submitted by the applicant. | |
| the text has been estab | lished, according to Rule 38.2(b), by this | Authority as it appears in Box No. IV. The applicant |
| may, within one month | from the date of mailing of this internation | al search report, submit comments to this Authority. |
| 6 With regard to the drawings | | |
| 6. With regard to the drawings , a. the figure of the drawings to be | e published with the abstract is Figure No. | ´3 |
| | y the applicant. | |
| | this Authority, because the applicant faile | l to suggest a figure. |
| <u> </u> | this Authority, because this figure better of | |
| | be published with the abstract. | |
| b none of the figures is to | , oc pastistica with the abstract. | |

INTERNATIONAL SEARCH REPORT

International Application No PCT/JP2004/018328

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 G01S5/14

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 G01S

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

| C. DOCUM | ENTS CONSIDERED TO BE RELEVANT | |
|------------|---|-----------------------|
| Category ° | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
| X | US 5 903 236 A (LAWRENCE ET AL) 11 May 1999 (1999-05-11) column 3, line 32 - column 5, line 39; figures 1-3 | 1-6, 10-17 |
| X | US 6 373 432 B1 (RABINOWITZ MATTHEW ET AL) 16 April 2002 (2002-04-16) column 5, lines 21-35; figures 1-3 column 15, line 2 - column 29, line 15 | 13,16 |
| X | US 6 127 968 A (LU ET AL) 3 October 2000 (2000-10-03) column 17, line 66 - column 19, line 51; figure 1 | 13,16 |
| | | |

| Y Further documents are listed in the continuation of box C. | Patēnt family members are listed in annex. |
|---|--|
| Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means | "T" tater document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. |
| P" document published prior to the international filing date but later than the priority date claimed | *&* document member of the same patent family |
| Date of the actual completion of the international search | . Date of mailing of the international search report |
| 2 March 2005 | 15/03/2005 |
| Name and mailing address of the ISA | Authorized officer |
| European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo nl, Fax: (+31–70) 340–3016 | Fanjul Caudevilla, J |

1

INTERNATIONAL SEARCH REPORT

International Application No
PCT/JP2004/018328

| | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|--|-----------------------|
| Category ° | Citation of document, with indication, where appropriate, of the felevant passages | |
| A | US 5 502 641 A (ISOMURA ET AL) 26 March 1996 (1996-03-26) column 6, line 45 - column 10, line 31; figures 1-5 | 1,13-17 |
| 4 | <u>US 2001/020216</u> A1 (LIN CHING-FANG) 6 September 2001 (2001-09-06) paragraphs '0083! - '0096!; figures 5-11 | 7-9 |
| | | |
| | | |
| | | |
| | | |

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No PCT/JP2004/018328

| Patent document cited in search report | | Publication date | | Patent family member(s) | Publication date |
|--|----|------------------|----------------------------------|--|--|
| US 5903236 | Α | 11-05-1999 | NONE | | |
| US 6373432 | B1 | 16-04-2002 | AU AU CA EP JP WO | 727360 B2 6942398 A 2283904 A1 0968577 A1 2001523335 T 9843372 A1 | 14-12-2000 20-10-1998 01-10-1998 05-01-2000 20-11-2001 01-10-1998 |
| US 6127968 | Α | 03-10-2000 | NONE | | |
| US 5502641 | Α | 26-03-1996 | JP CH | 7190769 A 693653 A5 | 28-07-1995 28-11-2003 |
| US 2001020216 | A1 | 06-09-2001 | US | 6278945 B1 | 21-08-2001 |